

GenCore version 5.1.6
Copyright (c) 1993 - 2003 CompuGen Ltd.

OM protein - protein search, using sw model

Run on: July 27, 2003, 11:19:09 ; Search time 23 Seconds
(without alignments)
1027.530 Million cell updates/sec

Title: US-09-823-307C-2
Perfect score: 1082
Sequence: 1 MKSGLMWFFLFCLRIKVLTG.....YMFMRVNTAKKSRLLTDVTL 199

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 451899 seqs, 118759770 residues

number of hits satisfying chosen parameters: 451899

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Published Applications AA:*

1: /cgn2_6/ptodata/2/pubpaa/US07_PUBCOMB.pep:*
2: /cgn2_6/ptodata/2/pubpaa/PCT_NEW_PUB.pep:*
3: /cgn2_6/ptodata/2/pubpaa/US06_NEW_PUB.pep:*
4: /cgn2_6/ptodata/2/pubpaa/US06_PUBCOMB.pep:*
5: /cgn2_6/ptodata/2/pubpaa/US07_NEW_PUB.pep:*
6: /cgn2_6/ptodata/2/pubpaa/PCTUS_PUBCOMB.pep:*
7: /cgn2_6/ptodata/2/pubpaa/US08_NEW_PUB.pep:*
8: /cgn2_6/ptodata/2/pubpaa/US08_PUBCOMB.pep:*
9: /cgn2_6/ptodata/2/pubpaa/US09A_PUBCOMB.pep:*
10: /cgn2_6/ptodata/2/pubpaa/US09B_PUBCOMB.pep:*
11: /cgn2_6/ptodata/2/pubpaa/US09C_PUBCOMB.pep:*
12: /cgn2_6/ptodata/2/pubpaa/US09_NEW_PUB.pep:*
13: /cgn2_6/ptodata/2/pubpaa/US10A_PUBCOMB.pep:*
14: /cgn2_6/ptodata/2/pubpaa/US10B_PUBCOMB.pep:*
15: /cgn2_6/ptodata/2/pubpaa/US10C_PUBCOMB.pep:*
16: /cgn2_6/ptodata/2/pubpaa/US10_NEW_PUB.pep:*
17: /cgn2_6/ptodata/2/pubpaa/US60_NEW_PUB.pep:*
18: /cgn2_6/ptodata/2/pubpaa/US60_PUBCOMB.pep:*

/Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	1082	100.0	199	US-10-107-828-2	Sequence 2, Appli
2	1082	100.0	199	US-10-107-907-2	Sequence 2, Appli
3	1082	100.0	199	US-10-107-868-2	Sequence 2, Appli
4	1082	100.0	199	US-10-301-056-2	Sequence 2, Appli
5	1082	100.0	199	US-10-207-655-162	Sequence 162, App
6	1067.5	98.7	198	US-09-972-524-2	Sequence 2, Appli
7	1067.5	98.7	198	US-09-823-307-2	Sequence 2, Appli
8	1066.5	98.6	198	US-09-989-545-12	Sequence 12, Appli
9	737.5	68.2	200	US-09-989-545-8	Sequence 8, Appli
10	737.5	68.2	200	US-09-989-545-10	Sequence 10, Appli
11	722.5	66.8	200	US-10-107-828-14	Sequence 14, Appli
12	722.5	66.8	200	US-10-107-907-14	Sequence 14, Appli
13	722.5	66.8	200	US-10-107-868-14	Sequence 14, Appli
14	722.5	66.8	200	US-10-301-056-14	Sequence 14, Appli
15	701	64.8	200	US-10-107-828-13	Sequence 13, Appli

16	701	64.8	200	14	US-10-107-907-13	Sequence 13, Appli
17	701	64.8	200	14	US-10-107-868-13	Sequence 13, Appli
18	701	64.8	200	15	US-10-301-056-13	Sequence 13, Appli
19	696	64.3	216	14	US-10-107-828-15	Sequence 15, Appli
20	696	64.3	216	14	US-10-107-828-23	Sequence 23, Appli
21	696	64.3	216	14	US-10-107-907-15	Sequence 15, Appli
22	696	64.3	216	14	US-10-107-907-23	Sequence 23, Appli
23	696	64.3	216	14	US-10-107-868-15	Sequence 15, Appli
24	696	64.3	216	14	US-10-107-868-23	Sequence 23, Appli
25	696	64.3	216	15	US-10-301-056-15	Sequence 15, Appli
26	696	64.3	216	15	US-10-301-056-23	Sequence 23, Appli
27	694.5	64.2	200	14	US-10-107-828-16	Sequence 16, Appli
28	694.5	64.2	200	14	US-10-107-907-16	Sequence 16, Appli
29	694.5	64.2	200	14	US-10-107-868-16	Sequence 16, Appli
30	694.5	64.2	200	15	US-10-301-056-16	Sequence 16, Appli
31	176	16.3	214	14	US-10-107-828-17	Sequence 17, Appli
32	176	16.3	214	14	US-10-107-907-17	Sequence 17, Appli
33	176	16.3	214	14	US-10-107-868-17	Sequence 17, Appli
34	176	16.3	214	15	US-10-301-056-17	Sequence 17, Appli
35	145.5	13.4	221	9	US-09-303-510-8	Sequence 8, Appli
36	145.5	13.4	221	9	US-09-303-040-8	Sequence 8, Appli
37	139.5	12.9	220	10	US-09-989-545-19	Sequence 19, Appli
38	139.5	12.9	220	11	US-09-835-297-4	Sequence 4, Appli
39	139.5	12.9	220	14	US-10-107-828-25	Sequence 25, Appli
40	139.5	12.9	220	14	US-10-107-907-25	Sequence 25, Appli
41	139.5	12.9	220	14	US-10-107-868-25	Sequence 25, Appli
42	139.5	12.9	220	15	US-10-301-056-25	Sequence 25, Appli
43	139.5	12.9	220	15	US-10-207-655-99	Sequence 99, Appli
44	138	12.8	218	10	US-09-989-545-18	Sequence 18, Appli
45	89	8.2	305	10	US-09-771-730-119	Sequence 119, App

ALIGNMENTS

RESULT 1
US-10-107-828-2
; Sequence 2, Application US/10107828
; Publication No. US20020115831A1
; GENERAL INFORMATION:
; APPLICANT: Tamatani, Takuya
; APPLICANT: Tezuka, Katsunari
; TITLE OF INVENTION: CELL SURFACE MOLECULE MEDIATING CELL
; FILE REFERENCE: 06501-039002
; CURRENT APPLICATION NUMBER: US/10/107, 828
; CURRENT FILING DATE: 2002-03-26
; PRIOR APPLICATION NUMBER: US/09/561, 308B
; PRIOR FILING DATE: 2000-04-28
; PRIOR APPLICATION NUMBER: PCT/JP98/00837
; PRIOR FILING DATE: 1998-02-27
; PRIOR APPLICATION NUMBER: JAPAN 09-62290
; PRIOR FILING DATE: 1997-02-27
; PRIOR APPLICATION NUMBER: JAPAN 10-62217
; NUMBER OF SEQ ID NOS: 26
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 2
; LENGTH: 199
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-107-828-2

Query Match	100.0%;	Score 1082;	DB 14;	Length 199;
Best Local Similarity	100.0%;	Pred. No. 6.6e-111;		
Matches 199;	Conservative 0;	Mismatches 0;	Indels 0;	Gaps 0
QY	1	MKSGLMYFFLFCLRIKYL	TGEINGSANYEMFI	FHNGVQILCKYPDIVQQFKMQLKGGQ 60
Db	1	MKSGLMYFFLFCLRIKYL	TGEINGSANYEMFI	FHNGVQILCKYPDIVQQFKMQLKGGQ 60
QY	61	ILCDLTKTSGSNTVSTKSL	KFCHSOLSNNSVS	FFLYNLDDSHANYFFCNLSIPDDPPFK 120

```
Db      61  ILCDLTKTGSGNTVSIKSLKFCCHSOLSNNVSFFLYNLDHSHANYFCNLSIFDPPPFK 120
QY      121  VTLTGGLHIYESQLCCQKLFWLPICGAFVWVCILIGCILICWLTKKKYSSSVHDPNGEY 180
Db      121  VTLTGGLHIYESQLCCQKLFWLPICGAFVWVCILIGCILICWLTKKKYSSSVHDPNGEY 180
QY      181  MEMRAVNTAKKSRLTDVTL 199
Db      181  MEMRAVNTAKKSRLTDVTL 199
```

RESULT 2

```
US-10-107-907-2
; Sequence 2, Application US/10107907
; Publication No. US20020151685A1
; GENERAL INFORMATION:
; APPLICANT: Tamatani, Takuya
; APPLICANT: Tezuka, Katsunari
; TITLE OF INVENTION: CELL SURFACE MOLECULE MEDIATING CELL
; TITLE OF INVENTION: ADHESION AND SIGNAL TRANSMISSION
; REFERENCE: 06501-039002
; CURRENT APPLICATION NUMBER: US/10/107,907
; CURRENT FILING DATE: 2002-03-26
; PRIOR APPLICATION NUMBER: 09/561,308
; PRIOR FILING DATE: 2000-04-28
; PRIOR APPLICATION NUMBER: PCT/JP98/00837
; PRIOR FILING DATE: 1998-02-27
; PRIOR APPLICATION NUMBER: JAPAN 09-62290
; PRIOR FILING DATE: 1997-02-27
; PRIOR APPLICATION NUMBER: JAPAN 10-62217
; PRIOR FILING DATE: 1998-02-26
; NUMBER OF SEQ ID NOS: 26
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 2
; LENGTH: 199
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-107-907-2
```

```
Query Match      100.0%; Score 1082; DB 14; Length 199;
Best Local Similarity 100.0%; Pred. No. 6.6e-111;
Matches 199; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY      1  MKSGLMWFLEFLCLRIKVLGGEINGSANYEMFIHNGVQILCKYPIVQOFKQQLKGGQ 60
Db      1  MKSGLMWFLEFLCLRIKVLGGEINGSANYEMFIHNGVQILCKYPIVQOFKQQLKGGQ 60
QY      61  ILCDLTKTGSGNTVSIKSLKFCCHSOLSNNVSFFLYNLDHSHANYFCNLSIFDPPPFK 120
Db      61  ILCDLTKTGSGNTVSIKSLKFCCHSOLSNNVSFFLYNLDHSHANYFCNLSIFDPPPFK 120
QY      121  VTLTGGLHIYESQLCCQKLFWLPICGAFVWVCILIGCILICWLTKKKYSSSVHDPNGEY 180
Db      121  VTLTGGLHIYESQLCCQKLFWLPICGAFVWVCILIGCILICWLTKKKYSSSVHDPNGEY 180
QY      181  MEMRAVNTAKKSRLTDVTL 199
Db      181  MEMRAVNTAKKSRLTDVTL 199
```

RESULT 3

```
US-10-107-868-2
; Sequence 2, Application US/10107868
; Publication No. US20020156242A1
; GENERAL INFORMATION:
; APPLICANT: Tamatani, Takuya
; APPLICANT: Tezuka, Katsunari
; TITLE OF INVENTION: CELL SURFACE MOLECULE MEDIATING CELL
; TITLE OF INVENTION: ADHESION AND SIGNAL TRANSMISSION
; FILE REFERENCE: 06501-039002
; CURRENT APPLICATION NUMBER: US/10/107,868
; CURRENT FILING DATE: 2002-03-26
; PRIOR APPLICATION NUMBER: 09/561,308
```

```
; PRIOR FILING DATE: 2000-04-28
; PRIOR APPLICATION NUMBER: US 09/383,551
; PRIOR FILING DATE: 1999-08-26
; PRIOR APPLICATION NUMBER: PCT/JP98/00837
; PRIOR FILING DATE: 1998-02-27
; PRIOR APPLICATION NUMBER: JAPAN 09-62290
; PRIOR FILING DATE: 1997-02-27
; PRIOR APPLICATION NUMBER: JAPAN 10-62217
; PRIOR FILING DATE: 1998-02-26
; NUMBER OF SEQ ID NOS: 26
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 2
; LENGTH: 199
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-107-868-2
```

```
Query Match      100.0%; Score 1082; DB 14; Length 199;
Best Local Similarity 100.0%; Pred. No. 6.6e-111;
Matches 199; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY      1  MKSGLMWFLEFLCLRIKVLGGEINGSANYEMFIHNGVQILCKYPIVQOFKQQLKGGQ 60
Db      1  MKSGLMWFLEFLCLRIKVLGGEINGSANYEMFIHNGVQILCKYPIVQOFKQQLKGGQ 60
QY      61  ILCDLTKTGSGNTVSIKSLKFCCHSOLSNNVSFFLYNLDHSHANYFCNLSIFDPPPFK 120
Db      61  ILCDLTKTGSGNTVSIKSLKFCCHSOLSNNVSFFLYNLDHSHANYFCNLSIFDPPPFK 120
QY      121  VTLTGGLHIYESQLCCQKLFWLPICGAFVWVCILIGCILICWLTKKKYSSSVHDPNGEY 180
Db      121  VTLTGGLHIYESQLCCQKLFWLPICGAFVWVCILIGCILICWLTKKKYSSSVHDPNGEY 180
QY      181  MEMRAVNTAKKSRLTDVTL 199
Db      181  MEMRAVNTAKKSRLTDVTL 199
```

RESULT 4

```
US-10-301-056-2
; Sequence 2, Application US/10301056
; Publication No. US20030083472A1
; GENERAL INFORMATION:
; APPLICANT: Tamatani, Takuya
; APPLICANT: Tezuka, Katsunari
; TITLE OF INVENTION: CELL SURFACE MOLECULE MEDIATING CELL
; TITLE OF INVENTION: ADHESION AND SIGNAL TRANSMISSION
; FILE REFERENCE: 06501-039001
; CURRENT APPLICATION NUMBER: US/10/301,056
; CURRENT FILING DATE: 2002-11-21
; PRIOR APPLICATION NUMBER: US/09/383,551
; PRIOR FILING DATE: 1999-08-26
; PRIOR APPLICATION NUMBER: PCT/JP98/00837
; PRIOR FILING DATE: 1998-02-27
; PRIOR APPLICATION NUMBER: JAPAN 09-62290
; PRIOR FILING DATE: 1997-02-27
; PRIOR APPLICATION NUMBER: JAPAN 10-62217
; PRIOR FILING DATE: 1998-02-26
; NUMBER OF SEQ ID NOS: 26
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 2
; LENGTH: 199
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-301-056-2
```

```
Query Match      100.0%; Score 1082; DB 15; Length 199;
Best Local Similarity 100.0%; Pred. No. 6.6e-111;
Matches 199; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY      1  MKSGLMWFLEFLCLRIKVLGGEINGSANYEMFIHNGVQILCKYPIVQOFKQQLKGGQ 60
Db      1  MKSGLMWFLEFLCLRIKVLGGEINGSANYEMFIHNGVQILCKYPIVQOFKQQLKGGQ 60
```

QY	61	ILCDLTKTGSGNTVYSIKSLKFCHSQLSNNSVSFFLYNLNDHSHANYFFCNLSIFDPPEPK	120
Dd	61	ILCDLTKTGSGNTVYSIKSLKFCHSQLSNNSVSFLLYNLDHSHANYFNCNLSIFDPPBPK	120
QY	121	VTLTGGYLHIYESQLCCQBLKFWLPIGCAAFVVCCIIGCILICWLTKKKYSSSVHDPNGEY	180
Dd	121	VTLTGGYLHIYESQLCCQBLKFWLPIGCAAFVVCCIIGCILICWLTKKKYSSSVHDPNGEY	180
QY	181	MEMRAVNTAKKSRLTDVTL	199
Dd	181	MEMRAVNTAKKSRLTDVTL	199

```

RESULT 5
US-10-207-655-162
; Sequence 162, Application US/10207655
; Publication No. US20030118592A1
GENERAL INFORMATION:
; APPLICANT: Ledbetter, Jeffrey A.
; INVENTOR: Hayden-Ledbetter, Martha S.
; TITLE OF INVENTION: BINDING DOMAIN-IMMUNOGLOBULIN FUSION PROTEINS
; FILE REFERENCE: 390069.401C1
CURRENT APPLICATION NUMBER: US/10/207,655
CURRENT FILING DATE: 2002-07-25
NUMBER OF SEQ ID NOS: 426
SOFTWARE: PatentIn version 3.0
SEQ ID NO 162
; LENGTH: 199
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-207-655-162

```

Query Match	100.0%;	Score 1082;	DB 15;	Length 199;
Best Local Similarity	100.0%;	Pred. No. 6.6e-111;		
Matches 199; Conservative	0;	Mismatches 0;	Indels 0;	Gaps 0;

QY	1	MSGLMYFFLFCRLRIKVL	TGEINGSANYEMFI	FHNGVQIOLCKY	PPDIYQOFKMQLLKGGQ	60
Db	1	MSGLMYFFLFCRLRIKVL	TGEINGSANYEMFI	FHNGVQIOLCKY	PPDIYQOFKMQLLKGGQ	60
QY	61	ILCDLTXTKSGSGNTVSI	KS LKFC HSGQSLSNNS	VSFFLLYNDL	DSHSHANYFFCNLSIFDPPPPK	120
Db	61	ILCDLTXTKSGSGNTVSI	KS LKFC HSGQSLSNNS	VSFFLLYNDL	DSHSHANYFFCNLSIFDPPPPK	120
QY	121	VLTGTGYLIHIYESQCL	KFWLPIGCAFAVWCILG	CIILCWLTKKXSSSVHD	PNGEY	180
Db	121	VLTGTGYLIHIYESQCL	KFWLPIGCAFAVWCILG	CIILCWLTKKXSSSVHD	PNGEY	180
QY	181	MEMRAVNTAKKSRLTDV	TL			199
Db	181	MEMRAVNTAKKSRLTDV	TL			199

```

RESULT 6
US-09-972-524-2
; Sequence 2, Application US/09972524
; Patent No. US20020177191A1
;
; GENERAL INFORMATION:
; APPLICANT: Kroczek, Richard
; TITLE OF INVENTION: Methods for Treatment of Asthmatic Disorders
; FILE REFERENCE: 7853-240
; CURRENT APPLICATION NUMBER: US/09/972,524
; CURRENT FILING DATE: 2001-10-04
; PRIOR APPLICATION NUMBER: 09/509,283
; PRIOR FILING DATE: 2000-08-11
; NUMBER OF SEQ ID NOS: 4
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 2
; LENGTH: 198
; TYPE: PRF
; ORGANISM: 8F4
US-09-972-524-2

```

Query Match	98.7%;	Score 1067.5;	DB 10;	Length 198;
Best Local Similarity	99.5%;	Pred. No. 2.6e-109;		
Matches 198; Conservative	0;	Mismatches 0;	Indels 1;	Gaps 1;

QY	1	MKSGIMYFFFLFCIRIKVLGTGEINSSANYEMFIENHNGVOILCKXYPDIVOQFKMQLTKGGQ	60
Dp	1	MKSGIMYFFFLFCIRIKVLGTGEINSSANYEMFIENHNGVOILCKXYPDIVOQFKMQLTKGGQ	60
QY	61	ILCDLTKTKGSGNTVSIKSLKFECHSOLSNSNSVSFFLLYNLDHSHANYFCNLSIFDPPPFK	120
Dp	61	ILCDLTKTKGSGNTVSIKSLKFECHSOLSNSNSVSFFLLYNLDHSHANYFCNLSIFDPPPFK	120
QY	121	VTLTGGYLHIYESQLCCQCLKFVLPICGCAFFVAVVCILGCILICWLTKKKYSSSVHDPNGEY	180
Dp	121	VTLTGGYLHIYESQLCCQCLKFVLPICGCAFFVAVVCILGCILICWLTKKKYSSSVHDPNGEY	179
QY	181	MEMRAVNTAKKSRLTDVTL	199
Dp	180	MEMRAVNTAKKSRLTDVTL	198

```

RESULT 7
US-09-823-307-2
; Sequence 2, Application US/09823307
; Publication No. US20020182667A1
; GENERAL INFORMATION:
; APPLICANT: Kroczek, Richard
; TITLE OF INVENTION: Methods of Modulating T Lymphocyte Costimulation
; FILE REFERENCE: 7853-235
; CURRENT APPLICATION NUMBER: US/09/823,307
; CURRENT FILING DATE: 2001-04-02
; PRIOR APPLICATION NUMBER: 09/509,283
; PRIOR FILING DATE: 2000-08-11
; NUMBER OF SEQ ID NOS: 4
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 2
; LENGTH: 198
; TYPE: PRT
; ORGANISM: 8F4
US-09-823-307-2

```

Query Match	98.7%;	Score 1067.5;	DB 10;	Length 198;
Best Local Similarity	99.5%;	Pred. No. 2.6e-109;		
Matches 198; Conservative	0;	Mismatches 0;	Indels 1;	Gaps 1;

QY	1	MKSGLMYFPLFCLRIKVLVTGEINGSANYEMFIHNHNGVOILCKXPDIVOQFKMOLKGGQ	60
Db	1	MKSGLMYFPLFCLRIKVLVTGEINGSANYEMFIHNHNGVOILCKXPDIVOQFKMOLKGGQ	60
QY	61	ILCDLTKTKSGNTVSIKSLKFCHSQLSNNSVSFPLYNLDSHANYFYFCNLSIFDPPPFK	120
Db	61	ILCDLTKTKSGNTVSIKSLKFCHSQLSNNSVSFPLYNLDSHANYFYFCNLSIFDPPPFK	120
QY	121	VTLTGGYLHIYESQLCCQLEKFWLPIGCAAFVVCILGCILICWLTKKKYSSSVHDPNGEY	180
Db	121	VTLTGGYLHIYESQLCCQLEKFWLPIGCAAF-VVCILGCILICWLTKKKYSSSVHDPNGEY	179
QY	181	MEMRAVNTAKKSRLTDVTL	199
Db	180	MEMRAVNTAKKSRLTDVTL	198

RESULT 8
US-09-989-545-12
; Sequence 12, Application US/09989545
; Patent No. US20020164697A1
; GENERAL INFORMATION:
; APPLICANT: Lehar, Sophie
; APPLICANT: Manning, Stephen
; APPLICANT: Coyle, Anthony J.
; APPLICANT: Gutierrez-Ramos, Jose-Carlos
; TITLE OF INVENTION: No. US20020164697A1e1 Th2-Specific Molecules and Uses Thereof

```
; FILE REFERENCE: 5800-10B
; CURRENT APPLICATION NUMBER: US/09/989,545
; CURRENT FILING DATE: 2001-11-20
; PRIOR APPLICATION NUMBER: 09/168,229
; PRIOR FILING DATE: 1998-10-07
; PRIOR APPLICATION NUMBER: 09/258,670
; PRIOR FILING DATE: 1999-02-26
; NUMBER OF SEQ ID NOS: 24
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 12
; LENGTH: 198
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-989-545-12
```

```
Query Match      98.6%; Score 1066.5; DB 10; Length 198;
Best Local Similarity 99.5%; Pred. No. 3.3e-109;
Matches 198; Conservative 0; Mismatches 0; Indels 1; Gaps 1;
```

```
QY      1 M K S G L W Y F F L F C L R I K V L T G E I N G S A N Y E M F I F H N G V Q I L C K Y P D I V Q Q F K M Q L L K G Q 60
Db      1 M K S G L W Y F F L F C L R I K V L T G E I N G S A N Y E M F I F H N G V Q I L C K Y P D I V Q Q F K M Q L L K G Q 60

QY      61 I L C D L T K T K G S G N T V S I K S L K F C H S Q L S N N S V S F F L Y N L D H S H A N Y F C N L S I F D P P P F K 120
Db      61 I L C D L T K T K G S G N T V S I K S L K F C H S Q L S N N S V S F F L Y N L D H S H A N Y F C N L S I F D P P P F K 120

QY      121 V T L T G Y L H I Y E S Q L C C Q L K F W L P I G C A A F V V V C I L G C I L I C W L T K K K Y S S V H D P N G E Y 180
Db      121 V T L T G Y L H I Y E S Q L C C Q L K F W L P I G C A A F V V V C I L G C I L I C W L T - K K Y S S V H D P N G E Y 179

QY      181 M E M R A V N T A K K S R L T D V T L 199
Db      180 M E M R A V N T A K K S R L T D V T L 198
```

```
RESULT 9
US-09-989-545-8
; Sequence 8, Application US/09989545
; Patent No. US20020164697A1
; GENERAL INFORMATION:
; APPLICANT: Lehman, Sophie
; APPLICANT: Manning, Stephen
; APPLICANT: Coyle, Anthony J.
; APPLICANT: Gutierrez-Ramos, Jose-Carlos
; TITLE OF INVENTION: No. US20020164697A1el Th2-Specific Molecules and Uses Thereof
; FILE REFERENCE: 5800-10B
; CURRENT APPLICATION NUMBER: US/09/989,545
; CURRENT FILING DATE: 2001-11-20
; PRIOR APPLICATION NUMBER: 09/168,229
; PRIOR FILING DATE: 1998-10-07
; PRIOR APPLICATION NUMBER: 09/258,670
; PRIOR FILING DATE: 1999-02-26
; NUMBER OF SEQ ID NOS: 24
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 8
; LENGTH: 200
; TYPE: PRT
; ORGANISM: Mus sp.
US-09-989-545-8
```

```
Query Match      68.2%; Score 737.5; DB 10; Length 200;
Best Local Similarity 69.3%; Pred. No. 4.7e-73;
Matches 138; Conservative 20; Mismatches 40; Indels 1; Gaps 1;
```

```
QY      1 M K S G L W Y F F L F C L R I K V L T G E I N G S A N Y E M F I F H N G V Q I L C K Y P D I V Q Q F K M Q L L K G Q 60
Db      1 M K P Y F C H V F C F L I R L L T G E I N G S A D H R M F S F H N G V Q I S C K Y P E T V Q Q L K M R L F R E R E 60

QY      61 I L C D L T K T K G S G N T V S I K S L K F C H S Q L S N N S V S F F L Y N L D H S H A N Y F C N L S I F D P P P F K 120
Db      61 V L C E L T K T K G S G N A V S I K N P M L C L Y H L S N N S V S F F L N N P D S S Q G S Y F C S L S I F D P P P F Q 120
```

```
QY      121 V - T L T G Y L H I Y E S Q L C C Q L K F W L P I G C A A F V V V C I L G C I L I C W L T K K K Y S S V H D P N G E 179
Db      121 E R N L S G Y L H I Y E S Q L C C Q L K M L P V G C A A F V V V L L F G C I L I I W F S K K Y G S S V H D P N S E 180

QY      180 Y M E M R A V N T A K K S R L T D V T 198
Db      181 Y M E M A A V N T N K S R L A G V T 199
```

```
RESULT 10
US-09-989-545-10
; Sequence 10, Application US/09989545
; Patent No. US20020164697A1
; GENERAL INFORMATION:
; APPLICANT: Lehman, Sophie
; APPLICANT: Manning, Stephen
; APPLICANT: Coyle, Anthony J.
; APPLICANT: Gutierrez-Ramos, Jose-Carlos
; TITLE OF INVENTION: No. US20020164697A1el Th2-Specific Molecules and Uses Thereof
; FILE REFERENCE: 5800-10B
; CURRENT APPLICATION NUMBER: US/09/989,545
; CURRENT FILING DATE: 2001-11-20
; PRIOR APPLICATION NUMBER: 09/168,229
; PRIOR FILING DATE: 1998-10-07
; PRIOR APPLICATION NUMBER: 09/258,670
; PRIOR FILING DATE: 1999-02-26
; NUMBER OF SEQ ID NOS: 24
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 10
; LENGTH: 200
; TYPE: PRT
; ORGANISM: Mus sp.
US-09-989-545-10
```

```
Query Match      68.2%; Score 737.5; DB 10; Length 200;
Best Local Similarity 69.3%; Pred. No. 4.7e-73;
Matches 138; Conservative 20; Mismatches 40; Indels 1; Gaps 1;
```

```
QY      1 M K S G L W Y F F L F C L R I K V L T G E I N G S A N Y E M F I F H N G V Q I L C K Y P D I V Q Q F K M Q L L K G Q 60
Db      1 M K P Y F C H V F C F L I R L L T G E I N G S A D H R M F S F H N G V Q I S C K Y P E T V Q Q L K M R L F R E R E 60

QY      61 I L C D L T K T K G S G N T V S I K S L K F C H S Q L S N N S V S F F L Y N L D H S H A N Y F C N L S I F D P P P F K 120
Db      61 V L C E L T K T K G S G N A V S I K N P M L C L Y H L S N N S V S F F L N N P D S S Q G S Y F C S L S I F D P P P F Q 120

QY      121 V - T L T G Y L H I Y E S Q L C C Q L K F W L P I G C A A F V V V C I L G C I L I C W L T K K K Y S S V H D P N G E 179
Db      121 E R N L S G Y L H I Y E S Q L C C Q L K M L P V G C A A F V V V L L F G C I L I I W F S K K Y G S S V H D P N S E 180

QY      180 Y M E M R A V N T A K K S R L T D V T 198
Db      181 Y M E M A A V N T N K S R L A G V T 199
```

```
RESULT 11
US-10-107-828-14
; Sequence 14, Application US/10107828
; Publication No. US20020115831A1
; GENERAL INFORMATION:
; APPLICANT: Tamatani, Takuya
; APPLICANT: Tezuka, Katsunari
; TITLE OF INVENTION: CELL SURFACE MOLECULE MEDIATING CELL
; FILE REFERENCE: 06501-039002
; CURRENT APPLICATION NUMBER: US/10/107,828
; CURRENT FILING DATE: 2002-03-26
; PRIOR APPLICATION NUMBER: US/09/561,308B
; PRIOR FILING DATE: 2000-04-28
; PRIOR APPLICATION NUMBER: PCT/JP98/00837
; PRIOR FILING DATE: 1998-02-27
; PRIOR APPLICATION NUMBER: JAPAN 09-62290
; PRIOR FILING DATE: 1997-02-27
```



```

; PRIOR FILING DATE: 1998-02-27
; PRIOR APPLICATION NUMBER: JAPAN 09-622290
; PRIOR FILING DATE: 1997-02-27
; PRIOR APPLICATION NUMBER: JAPAN 10-62217
; PRIOR FILING DATE: 1998-02-26
; NUMBER OF SEQ ID NOS: 26
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 14
; LENGTH: 200
; TYPE: PRT
; ORGANISM: Mus musculus
US-10-301-056-14
```

Query Match 66.8%; Score 722.5; DB 15; Length 200;
Best Local Similarity 68.3%; Pred. No. 2.1e-71;
Matches 136; Conservative 20; Mismatches 42; Indels 1; Gaps 1;

```

QY 1 MKSGLMWYFFLCFLRIKVLTEINGSANYEMFIHNGVQILCKYPDIVQOFKMOCLKGQ 60
Dy 1 MKPYFCHVVFCCFLIRLITGEINGSADHRMFSFHNGVQISCTYPTVQQLKRLFRERE 60
QY 61 ILCDLTKTSGSGNTVSIKSLKFCBSQLSNNSVSFFLYNLDSHANYFPCNLSIFDPPPF 120
Db 61 VLCELTKTSGSGNAVSITKNPMLCLYHLSNNSVSFFLNPNDSGGSYYFCSLSIFDPPPFQ 120
QY 121 V-TLGGYLIHYESQLCCQKFWLPIGCAAFVWVCILGCIILCWLTKKYSVHDPNGE 179
Db 121 ERNLGGYLIHYESQLCCQKLMPLVGPALFVWVLLFGCILITWFSKKYSSVHDPNSE 180
QY 180 YMFMAVNTAKKSRLTDVT 198
Db 181 YMFMAVNTNKKSRLAGVT 199
```

RESULT 15
US-10-107-828-13
; Sequence 13, Application US/10107828
; Publication No. US20020115831A1
; GENERAL INFORMATION:
; APPLICANT: Tamatani, Takuya
; APPLICANT: Tezuka, Katsunari
; TITLE OF INVENTION: CELL SURFACE MOLECULE MEDIATING CELL
; TITLE OF INVENTION: ADHESION AND SIGNAL TRANSMISSION
; FILE REFERENCE: 06501-039002
; CURRENT APPLICATION NUMBER: US/10/107,828
; PRIOR FILING DATE: 2002-03-26
; PRIOR APPLICATION NUMBER: US/09/561,308B
; PRIOR FILING DATE: 2000-04-28
; FOR APPLICATION NUMBER: PCT/JP98/00837
; PRIOR FILING DATE: 1998-02-27
; PRIOR APPLICATION NUMBER: JAPAN 09-62290
; PRIOR FILING DATE: 1997-02-27
; PRIOR APPLICATION NUMBER: JAPAN 10-62217
; PRIOR FILING DATE: 1998-02-26
; NUMBER OF SEQ ID NOS: 26
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 13
; LENGTH: 200
; TYPE: PRT
; ORGANISM: Rattus norvegicus
US-10-107-828-13

Query Match 64.8%; Score 701; DB 14; Length 200;
Best Local Similarity 67.9%; Pred. No. 4.8e-69;
Matches 133; Conservative 17; Mismatches 42; Indels 4; Gaps 2;

```

QY 7 YF---FLFCLRIKVLTEINGSANYEMFIHNGVQILCKYPDIVQOFKMOCLKGQILC 63
Db 4 YFSCVFVFCFLIKLITGEINDLANHRMFSFHDGVQISCTYPTVQQLKQDLFKDREVL 63
QY 64 DLTKTSGSGNTVSIKSLKFCBSQLSNNSVSFFLYNLDSHANYFPCNLSIFDPPPF-KVT 122
Db 64 DLTKTSGSGNTVSIKSNMPCPYQLSNNSVSFFLDNADSSQGSYFLCSLSIFDPPPFQEK 123
```

```

QY 123 LTGGYLIHYESQLCCQKFWLPIGCAAFVWVCILGCIILCWLTKKYSVHDPNGEYMF 182
Db 124 LSGYLLIYESQLCCQKLMPLVGPALFVWVLLFGCILITWFSKKYSSVHDPNSEYMF 183
QY 183 MRAVNTAKKSRLTDVT 198
Db 184 MAAVNTNKKSRLAGMT 199
```

Search completed: July 27, 2003, 11:20:39
Job time : 25 secs

GenCore version 5.1.6
Copyright (c) 1993 - 2003 Compugen Ltd.

OM protein - protein search, using sw model

Run on: July 27, 2003, 11:19:09 ; Search time 29 Seconds
(without alignments)
290.340 Million cell updates/sec

Title: US-09-823-307C-2
Perfect score: 1082
Sequence: 1 MKSGLWYFPLCLRIKVLTG.....YMFMRVNTAKSRLTDVTL 199

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 328717 seqs, 42310858 residues

Number of hits satisfying chosen parameters: 328717

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Issued Patents AA:*
1: /cgn2_6/ptodata/1/iaa/5A_COMB.pep:*
2: /cgn2_6/ptodata/1/iaa/5B_COMB.pep:*
3: /cgn2_6/ptodata/1/iaa/6A_COMB.pep:*
4: /cgn2_6/ptodata/1/iaa/6B_COMB.pep:*
5: /cgn2_6/ptodata/1/iaa/PCITUS_COMB.pep:*
6: /cgn2_6/ptodata/1/iaa/backfiles1.pep:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	658	60.8	379	4	US-09-667-135-24 Sequence 24, Appl
2	449.5	41.5	380	4	US-09-667-135-26 Sequence 26, Appl
3	163	15.1	218	3	US-08-228-208A-20 Sequence 20, Appl
4	146.5	13.5	225	1	US-08-505-058-4 Sequence 4, Appl
5	146.5	13.5	225	2	US-08-459-818-24 Sequence 24, Appl
6	146.5	13.5	225	2	US-08-889-666-24 Sequence 24, Appl
7	146.5	13.5	225	2	US-08-465-078-24 Sequence 24, Appl
8	146.5	13.5	225	2	US-08-725-776-24 Sequence 24, Appl
9	146.5	13.5	225	2	US-08-488-062-24 Sequence 24, Appl
10	145.5	13.4	221	4	US-09-303-040-8 Sequence 8, Appl
11	140	12.9	218	3	US-08-228-208A-19 Sequence 19, Appl
12	134.5	12.4	220	3	US-08-228-208A-21 Sequence 21, Appl
13	134	12.4	225	1	US-08-505-058-3 Sequence 3, Appl
14	134	12.4	225	2	US-08-459-818-23 Sequence 23, Appl
15	134	12.4	225	2	US-08-889-666-23 Sequence 23, Appl
16	134	12.4	225	2	US-08-465-078-23 Sequence 23, Appl
17	134	12.4	225	2	US-08-725-776-23 Sequence 23, Appl
18	134	12.4	225	2	US-08-488-062-23 Sequence 23, Appl
19	126	11.6	223	1	US-08-505-058-5 Sequence 5, Appl
20	126	11.6	223	2	US-08-459-818-25 Sequence 25, Appl
21	126	11.6	223	2	US-08-889-666-25 Sequence 25, Appl
22	126	11.6	223	2	US-08-465-078-25 Sequence 25, Appl
23	126	11.6	223	2	US-08-725-776-25 Sequence 25, Appl
24	126	11.6	223	2	US-08-488-062-25 Sequence 25, Appl
25	120.5	11.1	367	3	US-08-630-172-19 Sequence 19, Appl
26	120.5	11.1	367	3	US-09-375-419-19 Sequence 19, Appl
27	119.5	11.0	134	3	US-08-630-172-3 Sequence 3, Appl

28	119.5	11.0	134	3	US-09-375-419-3	Sequence 3, Appl
29	110.5	10.2	110	4	US-09-460-384-33	Sequence 33, Appl
30	93	8.6	221	3	US-08-228-208A-22	Sequence 22, Appl
31	89.5	8.3	117	2	US-08-529-878B-39	Sequence 39, Appl
32	87	8.0	330	2	US-08-332-562A-81	Sequence 81, Appl
33	87	8.0	330	2	US-08-332-562A-134	Sequence 134, App
34	86.5	8.0	209	4	US-09-430-503-20	Sequence 20, Appl
35	84.5	7.8	209	4	US-09-430-503-18	Sequence 18, Appl
36	84.5	7.8	209	4	US-09-430-503-24	Sequence 24, Appl
37	84	7.8	223	3	US-08-228-208A-17	Sequence 17, Appl
38	84	7.8	283	2	US-08-332-562A-136	Sequence 136, App
39	82.5	7.6	209	4	US-09-430-503-22	Sequence 22, Appl
40	81.5	7.5	187	1	US-08-067-684-14	Sequence 14, Appl
41	81.5	7.5	187	1	US-08-008-898-14	Sequence 14, Appl
42	81.5	7.5	187	2	US-08-459-818-14	Sequence 14, Appl
43	81.5	7.5	187	2	US-08-889-666-14	Sequence 14, Appl
44	81.5	7.5	187	2	US-08-465-078-14	Sequence 14, Appl
45	81.5	7.5	187	2	US-08-725-776-14	Sequence 14, Appl

ALIGNMENTS

RESULT 1
US-09-667-135-24
Sequence 24, Application US/09667135
Patent No. 6521749
GENERAL INFORMATION:
APPLICANT: Vincent Ling
TITLE OF INVENTION: NOVEL GL50 MOLECULES AND USES THEREFOR
FILE REFERENCE: GNN-007
CURRENT APPLICATION NUMBER: US/09/667,135
CURRENT FILING DATE: 2000-09-21
NUMBER OF SEQ ID NOS: 38
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 24
LENGTH: 379
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: hicos-mig2am amino acid sequence
US-09-667-135-24

Query Match 60.8%; Score 658; DB 4; Length 379;
Best Local Similarity 100.0%; Pred. NO. 7.2e-69;
Matches 121; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 21 EINGSANYEMFIHNGVQILCKYPDIVQGFQMLKGGQILCDLTKTSGSNTVSISKL 80
Db 26 EINGSANYEMFIHNGVQILCKYPDIVQGFQMLKGGQILCDLTKTSGSNTVSISKL 85
QY 81 KFCBSQLSNNSVSFFLYNLDHSHANYFCNLSIFDPPFKVTLTGXYLIHYESQLCCOLK 140
Db 86 KFCBSQLSNNSVSFFLYNLDHSHANYFCNLSIFDPPFKVTLTGXYLIHYESQLCCOLK 145

QY 141 F 141
Db 146 F 146

RESULT 2
US-09-667-135-26
Sequence 26, Application US/09667135
Patent No. 6521749
GENERAL INFORMATION:
APPLICANT: Vincent Ling
TITLE OF INVENTION: NOVEL GL50 MOLECULES AND USES THEREFOR
FILE REFERENCE: GNN-007
CURRENT APPLICATION NUMBER: US/09/667,135
CURRENT FILING DATE: 2000-09-21
NUMBER OF SEQ ID NOS: 38

```

; SOFTWARE: FastSeq for windows Version 4.0
; SEQ ID NO 26
; LENGTH: 380
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: micos-mig2am nucleotide sequence
US-09-667-135-26

Query Match          41.5%; Score 449.5; DB 4; Length 380;
Best Local Similarity 70.2%; Pred. No. 2.2e-44;
Matches 85; Conservative 13; Mismatches 22; Indels 1; Gaps 1;

OY 21 EINGSANYEMFIHNGGVQILCKYFDIVQOFKMQLLKGQILCDLTKTKSGSNTVISIKSL 80
      |||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
DB 26 EINGSADHNFSPHNGGVQISCKYETVQQLKMLFREREVLCELTKTKSGNAVISIKNP 85
      |||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
OY 81 KFCHSQLSNNSVSFFLYNLDHSHANYFCNLSIFDPPPEKV-TLTGYLHIYESQLCCQL 139
      |||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
DY 86 MLCLYHLSNNSVSFFLNNPDSQGSYYFCSLSIDFPPFQERNLSGGLHIYESQLCCQL 145
      |||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
OY 140 K 140
      |
DB 146 K 146

RESULT 3
US-08-228-208A-20
; Sequence 20, Application US/08228208A
; Patent No. 6090914
; GENERAL INFORMATION:
; APPLICANT: Linsley, Peter S.
; APPLICANT: Ledbetter, Jeffrey A.
; APPLICANT: Damle, Nitin K.
; APPLICANT: Brady, William
; APPLICANT: Wallace, Philip M.
; TITLE OF INVENTION: CTLA4/CD28tg HYBRID FUSION
; TITLE OF INVENTION: PROTEINS AND USES THEREOF
; NUMBER OF SEQUENCES: 22
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Merchant & Gould
; STREET: 11150 Santa Monica Boulevard, Suite 400
; CITY: Los Angeles
; STATE: CA
; COUNTRY: USA
; ZIP: 90025
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; OPERATING SYSTEM: DOS
; SOFTWARE: FastSeq Version 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/228,208A
; FILING DATE: 15-APR-1994
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/008,898
; FILING DATE: 22-JAN-1993
; APPLICATION NUMBER: 07/723,617
; FILING DATE: 27-JUN-1991
; ATTORNEY/AGENT INFORMATION:
; NAME: Adriano, Sarah B
; REGISTRATION NUMBER: 34,470
; REFERENCE/DOCKET NUMBER: 30436-30US01
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 310 445-1140
; TELEFAX: 310 445-9031
; TELEX:
; INFORMATION FOR SEQ ID NO: 20:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 218 amino acids
; TYPE: amino acid
; STRANDEDNESS: unknown

```

```

; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-228-208A-20

Query Match      15.1%; Score 163; DB 3; Length 218;
Best Local Similarity 26.5%; Pred. No. 4.5e-11;
Matches 41; Conservative 31; Mismatches 65; Indels 18; Gaps 7;

QY      30 MFIFHNGGVQLCKYPD--IVQQFKMQLKGQILCDLTTKGSGNTVSIKSLK----F 82
       : :: |::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|
DB      29 LLYVDNNEVSLSCRSYNLAKFRASLYKG--VNSDVEVCVGNGFTYQPQFRPNVGFN 86
       |::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|

QY      83 CHGSQSNNSVSFFLYNLDSHANYYFCNLSTFDPPPF--KVTLGGYLHIYESQLC---C 137
       |::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|
DB      87 CDGNEDNETVTFRLLWMDVNHTDIYFCKIEWMYP PPRPYLDNEKSNGTIIHKELCHAQT 146
       |::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|

QY      138 QLKFWLPICGAAFVVVC--ILGCILIC--WLTKKK 168
       |::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|
DB      147 SPKLFWPLVNVAGVLTCYGLTYTLCIITWSRR 181
       |::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|

RESULT 4
US-08-505-058-4
; Sequence 4, Application US/08505058
; Patent No. 5773253
; GENERAL INFORMATION:
; APPLICANT: Linsley, Peter S.
; APPLICANT: Iedbetter, Jeffrey A.
; APPLICANT: peach, Robert
; TITLE OF INVENTION: CTLA4 Mutant Molecules and Uses Thereof
; NUMBER OF SEQUENCES: 13
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Merchant & Gould
; STREET: 11150 Santa Monica Blvd., Suite 400
; CITY: Los Angeles
; STATE: California
; COUNTRY: USA
; ZIP: 90025
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/505, 058
; FILING DATE:
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/228, 208
; FILING DATE: 15-APR-1994
; ATTORNEY/AGENT INFORMATION:
; NAME: Adriano, Sarah B.
; REGISTRATION NUMBER: 34, 470
; REFERENCE/DOCKET NUMBER: 30436.30US11
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 310-445-1140
; TELEFAX: 310-445-9031
; INFORMATION FOR SEQ ID NO: 4:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 225 amino acids
; TYPE: amino acid
; STRANDEDNESS:
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-505-058-4

Query Match      13.5%; Score 146.5; DB 1; Length 225;
Best Local Similarity 26.2%; Pred. No. 4e-09;
Matches 42; Conservative 31; Mismatches 64; Indels 23; Gaps 9;

QY      30 MFIFHNGGVQIL-CXYPD--IVQQFKMQLKGQILCDLTKT-KSGSNTVSIKSLK---- 81
       : :: |::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|
DB      30 LLYVDNNEVSXLSCRYNLAKEFRASLYKG--VNSDVXEVCCVGNFTYQPQFRPNVG 87
       : :: |::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|
```



```
QY      82 -FCHSGLSNNNSVSFFLYNLDSHSHANYFCNLSIFDPPF--KVTLLTGGYLHIYESQLC-- 136
      88 FNCDDGNFNETVTFRLWNLVDVNHHTDIYFCKIEVMYPPPYLDNEKSNGTIIHIKEKHLCHA 147
DB
QY      137 ----CQLKFWLPICGAFAVVC--ILGCLILC--WLTKKK 168
      148 XXXQTSPLFLFWPLVVAVAGVLLCYGLLYTVTLCTIWTNSRR 187
DB

RESULT 5
US-08-459-818-24
; Sequence 24, Application US/08459818
; Patent No. 5851795
; GENERAL INFORMATION:
;   APPLICANT: Linsley, Peter S.
;   APPLICANT: Ledbetter, Jeffrey A.
;   APPLICANT: Damle, Nitin K.
;   APPLICANT: Brady, William
;   TITLE OF INVENTION: CTLA4 Receptor and Uses Thereof
;   NUMBER OF SEQUENCES: 27
;   CORRESPONDENCE ADDRESS:
;   ADDRESSEE: Merchant & Gould
;   STREET: 1150 Santa Monica Blvd., Suite 400
;   CITY: Los Angeles
;   STATE: California
;   COUNTRY: USA
;   ZIP: 90025
;   COMPUTER READABLE FORM:
;   MEDIUM TYPE: Floppy disk
;   COMPUTER: IBM PC compatible
;   OPERATING SYSTEM: PC-DOS/MS-DOS
;   SOFTWARE: FastSeq 2.0
;   CURRENT APPLICATION DATA:
;   APPLICATION NUMBER: US/08/459, 818
;   FILING DATE: 02-JUN-1995
;   CLASSIFICATION: 435
;   ATTORNEY/AGENT INFORMATION:
;   NAME: Adriano, Sarah B.
;   REGISTRATION NUMBER: 34,470
;   REFERENCE/DOCKET NUMBER: 30436.35US02
;   TELECOMMUNICATION INFORMATION:
;   TELEPHONE: 310-445-1140
;   TELEFAX: 310-445-9031
;   INFORMATION FOR SEQ ID NO: 24:
;   SEQUENCE CHARACTERISTICS:
;   LENGTH: 225 amino acids
;   TYPE: amino acid
;   STRANDEDNESS:
;   TOPOLOGY: linear
;   MOLECULE TYPE: protein
;   US-08-459-818-24

Query Match      13.5%; Score 146.5; DB 2; Length 225;
Best Local Similarity 26.2%; Pred. No. 4e-09;
Matches 42; Conservative 31; Mismatches 64; Indels 23; Gaps 9;

QY      30 MFIHNGGVQIL-CKYPD--IVQOFKQMLKGGQILCDLTKT-KSGNTVSISLK---- 81
      : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
DB      30 LLYVDNNEVXSLSCRYSYNLLAKEFRASLYKG--VNSDVXEVCGVNGNFTYQOFRPNVG 87
      : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :

QY      82 -FCHSGLSNNNSVSFFLYNLDSHSHANYFCNLSIFDPPF--KVTLLTGGYLHIYESQLC-- 136
      88 FNCDDGNFNETVTFRLWNLVDVNHHTDIYFCKIEVMYPPPYLDNEKSNGTIIHIKEKHLCHA 147
DB
QY      137 ----CQLKFWLPICGAFAVVC--ILGCLILC--WLTKKK 168
      148 XXXQTSPLFLFWPLVVAVAGVLLCYGLLYTVTLCTIWTNSRR 187
DB

RESULT 6
US-08-889-666-24
; Sequence 24, Application US/08889666
```

```
Patent No. 5885579
; GENERAL INFORMATION:
;   APPLICANT: Linsley, Peter S.
;   APPLICANT: Ledbetter, Jeffrey A.
;   APPLICANT: Damle, Nitin K.
;   APPLICANT: Brady, William
;   APPLICANT: Kiener, Peter A.
;   TITLE OF INVENTION: CTLA4 Receptor and Uses Thereof
;   NUMBER OF SEQUENCES: 26
;   CORRESPONDENCE ADDRESS:
;   ADDRESSEE: Merchant & Gould
;   STREET: 1150 Santa Monica Blvd., Suite 400
;   CITY: Los Angeles
;   STATE: California
;   COUNTRY: USA
;   ZIP: 90025
;   COMPUTER READABLE FORM:
;   MEDIUM TYPE: Floppy disk
;   COMPUTER: IBM PC compatible
;   OPERATING SYSTEM: PC-DOS/MS-DOS
;   SOFTWARE: Patent In Release #1.0, Version #1.30
;   CURRENT APPLICATION DATA:
;   APPLICATION NUMBER: US/08/889,666
;   FILING DATE: 08-JUL-1997
;   CLASSIFICATION: 435
;   PRIOR APPLICATION DATA:
;   APPLICATION NUMBER: US 08/375390
;   FILING DATE: 18-JAN-1995
;   CLASSIFICATION: 435
;   ATTORNEY/AGENT INFORMATION:
;   NAME: Adriano, Sarah B.
;   REGISTRATION NUMBER: 34,470
;   REFERENCE/DOCKET NUMBER: 30436-35US01
;   TELECOMMUNICATION INFORMATION:
;   TELEPHONE: 310-445-1140
;   TELEFAX: 310-445-9031
;   INFORMATION FOR SEQ ID NO: 24:
;   SEQUENCE CHARACTERISTICS:
;   LENGTH: 225 amino acids
;   TYPE: amino acid
;   STRANDEDNESS:
;   TOPOLOGY: linear
;   MOLECULE TYPE: protein
;   US-08-889-666-24

Query Match      13.5%; Score 146.5; DB 2; Length 225;
Best Local Similarity 26.2%; Pred. No. 4e-09;
Matches 42; Conservative 31; Mismatches 64; Indels 23; Gaps 9;

QY      30 MFIHNGGVQIL-CKYPD--IVQOFKQMLKGGQILCDLTKT-KSGNTVSISLK---- 81
      : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
DB      30 LLYVDNNEVXSLSCRYSYNLLAKEFRASLYKG--VNSDVXEVCGVNGNFTYQOFRPNVG 87
      : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :

QY      82 -FCHSGLSNNNSVSFFLYNLDSHSHANYFCNLSIFDPPF--KVTLLTGGYLHIYESQLC-- 136
      88 FNCDDGNFNETVTFRLWNLVDVNHHTDIYFCKIEVMYPPPYLDNEKSNGTIIHIKEKHLCHA 147
DB
QY      137 ----CQLKFWLPICGAFAVVC--ILGCLILC--WLTKKK 168
      148 XXXQTSPLFLFWPLVVAVAGVLLCYGLLYTVTLCTIWTNSRR 187
DB

RESULT 7
US-08-465-078-24
; Sequence 24, Application US/08465078
; Patent No. 5885796
; GENERAL INFORMATION:
;   APPLICANT: Linsley, Peter S.
;   APPLICANT: Ledbetter, Jeffrey A.
;   APPLICANT: Damle, Nitin K.
;   APPLICANT: Brady, William
;   APPLICANT: Kiener, Peter A.
;   TITLE OF INVENTION: CTLA4 Receptor and Uses Thereof
```

```

; NUMBER OF SEQUENCES: 26
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Merchant & Gould
; STREET: 11150 Santa Monica Blvd., Suite 400
; CITY: Los Angeles
; STATE: California
; COUNTRY: USA
; ZIP: 90025
;
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/465,078
; FILING DATE: 05-JUN-1995
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/375390
; FILING DATE: 18-JAN-1995
; ATTORNEY/AGENT INFORMATION:
; NAME: Adriano, Sarah B.
; REGISTRATION NUMBER: 34,470
; REFERENCE/DOCKET NUMBER: 30436-35US01
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 310-445-1140
; TELEFAX: 310-445-9031
; INFORMATION FOR SEQ ID NO: 24:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 225 amino acids
; TYPE: amino acid
; STRANDEDNESS:
; TOPOLOGY: linear
; MOLECULE TYPE: protein
;
; US-08-465-078-24
;
Query Match      13.5%; Score 146.5; DB 2; Length 225;
Best Local Similarity 26.2%; Pred. No. 4e-09;
Matches 42; Conservative 31; Mismatches 64; Indels 23; Gaps 9;
;
QY      30 MFIFHNGVQIL-CKYPD--IVQQFKMQLKGGQILCDLTKT-KSGSNTVSIKSLK---- 81
;      :  :  :  :  :  :  :  :  :  :  :  :  :  :  :  :  :  :  :  :  :  :  :
Db      30 LLVYDNNVEXSLSCRYSYNLLAKEFRASLYKG--VNSDVXEVCGVNGNFTYQOPQFRPNVG 87
;
QY      82 -FCHSOLSNNSVSFFLYNLDHSHANYFCNLSIFDPPPF--KVTLTGGLHYESQLC-- 136
;      |  :  :  :  :  :  :  :  :  :  :  :  :  :  :  :  :  :  :  :  :  :
Db      88 FNC DGNF DNETVTFRLWNL DVNHTDIYFCKIEVMYPPPYLDNEKSNGTIIHIKEKHLCHA 147
;
QY      137 ----COLKFWLPICGAAFYVVC--ILGCILIC--WLTKKK 168
;      |  :  :  :  :  :  :  :  :  :  :  :  :  :  :  :  :  :  :  :  :  :
Db      148 XXXQTSPKLFWPLVAVGVLVCYGLLYTVTLCTIWTNSRR 187
;
;
RESULT 8
US-08-725-776-24
; Sequence 24, Application US/08725776
; Patent No. 5968510
; GENERAL INFORMATION:
; APPLICANT: Linsley, Peter S.
; APPLICANT: Ledbetter, Jeffrey A.
; APPLICANT: Damle, Nitin K.
; APPLICANT: Brady, William
; APPLICANT: Kiener, Peter A.
; TITLE OF INVENTION: CTLA4 Receptor and Uses Thereof
; NUMBER OF SEQUENCES: 26
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Merchant & Gould
; STREET: 11150 Santa Monica Blvd., Suite 400
; CITY: Los Angeles
; STATE: California
; COUNTRY: USA
; ZIP: 90025
; COMPUTER READABLE FORM:
;
;

```

```

; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/725,776
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/375390
; FILING DATE: 18-JAN-1995
; ATTORNEY/AGENT INFORMATION:
; NAME: Adriano, Sarah B.
; REGISTRATION NUMBER: 34,470
; REFERENCE/DOCKET NUMBER: 30436-35US01
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 310-445-1140
; TELEFAX: 310-445-9031
; INFORMATION FOR SEQ ID NO: 24:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 225 amino acids
; TYPE: amino acid
; STRANDEDNESS:
; TOPOLOGY: linear
; MOLECULE TYPE: protein
;
; US-08-725-776-24
;
Query Match      13.5%; Score 146.5; DB 2; Length 225;
Best Local Similarity 26.2%; Pred. No. 4e-09;
Matches 42; Conservative 31; Mismatches 64; Indels 23; Gaps 9;
;
QY      30 MFIFHNGVQIL-CKYPD--IVQQFKMQLKGGQILCDLTKT-KSGSNTVSIKSLK---- 81
;      :  :  :  :  :  :  :  :  :  :  :  :  :  :  :  :  :  :  :  :  :
Db      30 LLVYDNNVEXSLSCRYSYNLLAKEFRASLYKG--VNSDVXEVCGVNGNFTYQOPQFRPNVG 87
;
QY      82 -FCHSOLSNNSVSFFLYNLDHSHANYFCNLSIFDPPPF--KVTLTGGLHYESQLC-- 136
;      |  :  :  :  :  :  :  :  :  :  :  :  :  :  :  :  :  :  :  :  :  :
Db      88 FNC DGNF DNETVTFRLWNL DVNHTDIYFCKIEVMYPPPYLDNEKSNGTIIHIKEKHLCHA 147
;
QY      137 ----COLKFWLPICGAAFYVVC--ILGCILIC--WLTKKK 168
;      |  :  :  :  :  :  :  :  :  :  :  :  :  :  :  :  :  :  :  :  :  :
Db      148 XXXQTSPKLFWPLVAVGVLVCYGLLYTVTLCTIWTNSRR 187
;
;
RESULT 9
US-08-488-062-24
; Sequence 24, Application US/08488062
; Patent No. 5977318
; GENERAL INFORMATION:
; APPLICANT: Linsley, Peter S.
; APPLICANT: Ledbetter, Jeffrey A.
; APPLICANT: Damle, Nitin K.
; APPLICANT: Brady, William
; APPLICANT: Kiener, Peter A.
; TITLE OF INVENTION: CTLA4 Receptor and Uses Thereof
; NUMBER OF SEQUENCES: 26
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Merchant & Gould
; STREET: 11150 Santa Monica Blvd., Suite 400
; CITY: Los Angeles
; STATE: California
; COUNTRY: USA
; ZIP: 90025
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/488,062
; FILING DATE: 07-JUN-1995
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
;
;

```

APPLICATION NUMBER: US 08/375390
FILING DATE: 18-JAN-1995
ATTORNEY/AGENT INFORMATION:
NAME: Adriano, Sarah B.
REGISTRATION NUMBER: 34,470
REFERENCE/DOCKET NUMBER: 30436-35US01
TELECOMMUNICATION INFORMATION:
TELEPHONE: 310-445-1140
TELEFAX: 310-445-9031
INFORMATION FOR SEQ ID NO: 24:
SEQUENCE CHARACTERISTICS:
LENGTH: 225 amino acids
TYPE: amino acid
STRANDEDNESS:
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-488-062-24

Query Match 13.5%; Score 146.5; DB 2; Length 225;
Best Local Similarity 26.2%; Pred. No. 4e-09;
Matches 42; Conservative 31; Mismatches 64; Indels 23; Gaps 9;

QY 30 MFIFHNGVQIL-CKYPD--IVQOFKMQLLKGQILCDLTKT-KSGNTVSIKSLK---- 81
DB 30 LLYVDNNEVXSLSCRYSYNLLAKEFRASLYKG--VNSDVAEVCVGNNGNFTYQOPFRPNVG 87
QY 82 -FCHSOLSNSVSFFLYNLDSHANYFCNLSIFDPPF--KVTLLTGGYLHIYESQLC- 136
DB 88 FNCDFNFDNETVFRMLNDVNMHTDIYFCKIEVMYPPPYLDNEKSNGTIIHIKEKHLCHA 147
QY 137 ----COLKFWLPICGAAFFVVC--ILGCLILC--WLTKK 168
DB 148 XXXQTSPLFWPLVVAVGVLCCYGLLYTVTLCTIWTNSRR 187

RESULT 10
US-09-303-040-8
Sequence 8, Application US/09303040
Patent No. 6555671
GENERAL INFORMATION:
APPLICANT: Winslow, Barbara J.
APPLICANT: Cochran, Mark D.
TITLE OF INVENTION: Recombinant Virus Expressing Foreign DNA Encoding
TITLE OF INVENTION: Feline CD80, Feline CD86, Feline CD28, Feline CTLA-4 or
FILE REFERENCE: 54957-B
CURRENT APPLICATION NUMBER: US/09/303,040
CURRENT FILING DATE: 1999-04-30
PRIORITY APPLICATION NUMBER: 60/083,870
PRIORITY FILING DATE: 1998-05-01
NUMBER OF SEQ ID NOS: 82
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 8
LENGTH: 221
TYPE: PRT
ORGANISM: feline CD28
US-09-303-040-8

Query Match 13.4%; Score 145.5; DB 4; Length 221;
Best Local Similarity 28.3%; Pred. No. 5.2e-09;
Matches 45; Conservative 22; Mismatches 65; Indels 27; Gaps 8;
QY 32 IFHNGVQILCKYPD--IVQOFKMQLLKGQILCDLTKTG--SGNTVSIKSLK-CHSQ 86
DB 31 VVYNNEVNLSCRYTHNPFSEKFRASLYKGVDSAVEVCVNGNYSHPQPFYSTGTGDCDGK 90
QY 87 LSNSVSFFLYNLDSHANYFCNLSIFDPPF--KVTLLTGGYLHIYESQLC-COLK--- 140
DB 91 LGNETVTFYLRNLFEVNTDIFYCKIEVMYPPPYLDNEKSNGTIIHIKEKHLCPAQLSPES 150
QY 141 ---FWLPICGAAFFVVCILG-----CILCWLTKK 168
DB 151 SKPFW-----ALVVVGILGFYSLATVALGACWMTKR 184

RESULT 11
US-08-228-208A-19
Sequence 19, Application US/08228208A
Patent No. 6090914
GENERAL INFORMATION:
APPLICANT: Linsley, Peter S.
APPLICANT: Ledbetter, Jeffrey A.
APPLICANT: Damle, Nitin K.
APPLICANT: Brady, William
APPLICANT: Wallace, Philip M.
TITLE OF INVENTION: CTLA4/CD28lg HYBRID FUSION
TITLE OF INVENTION: PROTEINS AND USES THEREOF
NUMBER OF SEQUENCES: 22
CORRESPONDENCE ADDRESS:
ADDRESSEE: Merchant & Gould
STREET: 11150 Santa Monica Boulevard, Suite 400
CITY: Los Angeles
STATE: CA
COUNTRY: USA
ZIP: 90025
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOFTWARE: FastSeq Version 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/228,208A
FILING DATE: 15-APR-1994
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/008,898
FILING DATE: 22-JAN-1993
APPLICATION NUMBER: 07/723,617
FILING DATE: 27-JUN-1991
ATTORNEY/AGENT INFORMATION:
NAME: Adriano, Sarah B
REGISTRATION NUMBER: 34,470
REFERENCE/DOCKET NUMBER: 30436-30US01
TELECOMMUNICATION INFORMATION:
TELEPHONE: 310 445-1140
TELEFAX: 310 445-9031
TELEX:
INFORMATION FOR SEQ ID NO: 19:
SEQUENCE CHARACTERISTICS:
LENGTH: 218 amino acids
TYPE: amino acid
STRANDEDNESS: unknown
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-228-208A-19

Query Match 12.9%; Score 140; DB 3; Length 218;
Best Local Similarity 25.7%; Pred. No. 2.2e-08;
Matches 39; Conservative 24; Mismatches 61; Indels 28; Gaps 7;
QY 38 VOILCKYPD--IVQOFKMQLLKGQILCDLTKTKSGNTVSIKSLK-----CHSOLSNN 90
DB 37 VSLSCRYSYNLLAKEFRASLYKG--VNSDVAEVCVGNNGNFTYQOPFRSNAEFNCDGDFDNE 94
QY 91 SVSFFLYNLDSHANYFCNLSIFDPPF--KVTLLTGGYLHIYESQLC---COLKFWLP 144
DB 95 TVTFRMLNLVNMHTDIYFCKIEFMYPYLDNEKSNGTIIHIKEKHLCHTQSSPKLFW-- 152
QY 145 ICGAAFFVVCILG-----ILICWLTKK 168
DB 153 ---ALYVAVGVLFCYGLIVTVALCVIWTNSRR 181
RESULT 12
US-08-228-208A-21
Sequence 21, Application US/08228208A

```

; Patent No. 6090914
; GENERAL INFORMATION:
; APPLICANT: Linsley, Peter S.
; APPLICANT: Ledbetter, Jeffrey A.
; APPLICANT: Damle, Nitin K.
; APPLICANT: Brady, William
; APPLICANT: Wallace, Philip M.
; TITLE OF INVENTION: CTLA4/CD2819 HYBRID FUSION
; TITLE OF INVENTION: PROTEINS AND USES THEREOF
; NUMBER OF SEQUENCES: 22
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Merchant & Gould
; STREET: 11150 Santa Monica Boulevard, Suite 400
; CITY: Los Angeles
; STATE: CA
; COUNTRY: USA
; ZIP: 90025
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: FastSeq Version 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/228,208A
; FILING DATE: 15-APR-1994
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/008,898
; FILING DATE: 22-JAN-1993
; APPLICATION NUMBER: 07/723,617
; FILING DATE: 27-JUN-1991
; ATTORNEY/AGENT INFORMATION:
; NAME: Adriano, Sarah B
; REGISTRATION NUMBER: 34,470
; REFERENCE/DOCKET NUMBER: 30436-30US01
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 310 445-1140
; TELEFAX: 310 445-9031
;
; TELEEX:
; INFORMATION FOR SEQ ID NO: 21:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 220 amino acids
; TYPE: amino acid
; STRANDEDNESS: unknown
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-08-228-208A-21
;
; Query Match
; Best Local Similarity: 12.4%; Score 134.5; DB 3; Length 220;
; Matches 44; Conservative 30; Mismatches 74; Indels 25; Gaps 7;
;
; QY 30 MFIHNGVQILCKYPD--IVQFKMQLKGGQILCDLTKTSGN---TVSIKSLKFC 84
; Db : : : : : : : : : : : : : : : : : : : : : : : : : :
; 28 MLVAYDNAYNLSCKVSYNLFSSREFRSLHKGLDSAVEVCVVYGNYSQLOVYSGTGFCND 87
; QY 85 SOLSNNSVSFPLYNLDHSHANYFCNLSIFDPPPF--KVTLTGGLHIYESQLCCQLKFW 142
; Db : : : : : : : : : : : : : : : : : : : : : : : : : :
; 88 GKLGNESVTFTLONLNVNQTDIYFCKIEVMYPPPYLDNEKSNGTIIHVKGKHLCPSPLE- 146
;
; QY 143 LPICGAFVVCILGILIC-----WLTKKKYSVVHDPNGEYFM 183
; Db 147 -PGPSKPFVVLVVGVLACYSLEYTVAFIIFWVRSKR-SRLTH---SDYMMN 194
;
;
; RESULT 13
; US-08-505-058-3
; Sequence 3, Application US/08505058
; Patent No. 5773253
; GENERAL INFORMATION:
; APPLICANT: Linsley, Peter S.
; APPLICANT: Ledbetter, Jeffrey A.
; APPLICANT: Peach, Robert
```

```

; TITLE OF INVENTION: CTLA4 Mutant Molecules and Uses Thereof
; NUMBER OF SEQUENCES: 13
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Merchant & Gould
; STREET: 11150 Santa Monica Blvd., Suite 400
; CITY: Los Angeles
; STATE: California
; COUNTRY: USA
; ZIP: 90025
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/505,058
; FILING DATE:
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/228,208
; FILING DATE: 15-APR-1994
; ATTORNEY/AGENT INFORMATION:
; NAME: Adriano, Sarah B.
; REGISTRATION NUMBER: 34,470
; REFERENCE/DOCKET NUMBER: 30436.30US11
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 310-445-1140
; TELEFAX: 310-445-9031
; INFORMATION FOR SEQ ID NO: 3:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 225 amino acids
; TYPE: amino acid
; STRANDEDNESS:
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-08-505-058-3
;
; Query Match
; Best Local Similarity: 12.4%; Score 134; DB 1; Length 225;
; Matches 42; Conservative 32; Mismatches 77; Indels 32; Gaps 8;
;
; QY 11 FCRLRIKVLTEIGNSANYEMFIHNGVQILCKYPD--IVQFKMQLKGGQILCDLTKT 68
; Db : : : : : : : : : : : : : : : : : : : : : : : : : :
; 12 FFXSVQVTENKILVQSPLLYVDSNEVXSLSCRYSYNLLAKEFRASLYKG--VNSDVXEV 69
; QY 69 -KSGGNTVSISIKLKF-----CHSOLSNNSVSFPLYNLDHSHANYFCNLSIFDPPPF--K 120
; Db : : : : : : : : : : : : : : : : : : : : : : : : : :
; 70 CVNGNFTYQPOFRSNAEFNCDGDFDNETVTFTLWNLHVNTDIYFCKIEFMYPPIYLDN 129
; QY 121 VTLTGYLHIYESQLC-----COLKFWLPICGAFVVCILGIC-----ILICWLT 165
; Db : : : : : : : : : : : : : : : : : : : : : : : : : :
; 130 ERSNGTIIHIKEKHLCHTXXQSSPKLFW-----ALYVAVAGVLFCYGLLVTVVALCVIWTN 184
;
; QY 166 KKK 168
; Db 185 SRR 187
;
;
; RESULT 14
; US-08-459-818-23
; Sequence 23, Application US/08459818
; Patent No. 5851795
; GENERAL INFORMATION:
; APPLICANT: Linsley, Peter S.
; APPLICANT: Ledbetter, Jeffrey A.
; APPLICANT: Damle, Nitin K.
; APPLICANT: Brady, William
; TITLE OF INVENTION: CTLA4 Receptor and Uses Thereof
; NUMBER OF SEQUENCES: 27
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Merchant & Gould
; STREET: 11150 Santa Monica Blvd., Suite 400
; CITY: Los Angeles
```

```
STATE: California
COUNTRY: USA
ZIP: 90025
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: FastSeq 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/459,818
FILING DATE: 02-JUN-1995
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: Adriano, Sarah B.
REGISTRATION NUMBER: 34,470
REFERENCE/DOCKET NUMBER: 30436.35US02
TELEPHONE: 310-445-1140
TELEFAX: 310-445-9031
INFORMATION FOR SEQ ID NO: 23:
SEQUENCE CHARACTERISTICS:
LENGTH: 225 amino acids
TYPE: amino acid
STRANDEDNESS:
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-459-818-23

Query Match      12.4%; Score 134; DB 2; Length 225;
Best Local Similarity 23.0%; Pred. No. 1.2e-07;
Matches 42; Conservative 32; Mismatches 77; Indels 32; Gaps 8;

QY 11 FCLRIKVLTEINGSANTEMFIHNGVQILCKYPD--IVQQFKMQLKGGQILCDLTKT 68
   |  :  :  :  :  :  :  :  :  :  :  :  :  :  :  :  :  :  :  :  :
DB 12 FFXSVQVTENKILVKOSPLLYVDSNEVXSLSCRYSYNLLAKEFRASLYKG--VNSDVXEV 69
   |  :  :  :  :  :  :  :  :  :  :  :  :  :  :  :  :  :  :  :  :
QY 69 -KSGSNTVSIKSLKF-----CHSQLSNNSVSFFLYNLDSHANYFFCNLSIFDPPPF--K 120
   |  :  :  :  :  :  :  :  :  :  :  :  :  :  :  :  :  :  :  :  :
DB 70 CVGNNGNFTYQOPQFRSNAEFNCGDGFNETVTFRMLNHLVNHDTIYFCKIEFMYPPIYLDN 129
   |  :  :  :  :  :  :  :  :  :  :  :  :  :  :  :  :  :  :  :  :
QY 121 VTLTGGLHIYESQLC-----CQLKFWLPICGAFFVVCILGC-----ILICWLT 165
   |  :  :  :  :  :  :  :  :  :  :  :  :  :  :  :  :  :  :  :  :
DB 130 ERSNGTIIHIKEKHLCHTXXXQSSPKLFW-----ALYVAVGVLFQYGLLVTVLVCVIWTN 184
   |  :  :  :  :  :  :  :  :  :  :  :  :  :  :  :  :  :  :  :  :
QY 166 KKK 168
   |  :  :
DB 185 SRR 187

RESULT 15
US-08-889-666-23
; Sequence 23, Application US/08889666
; Patent No. 5885579
; GENERAL INFORMATION:
; APPLICANT: Linsley, Peter S.
; APPLICANT: Ledbetter, Jeffrey A.
; APPLICANT: Dame, Nitin K.
; APPLICANT: Brady, William
; APPLICANT: Kliner, Peter A.
; TITLE OF INVENTION: CTLA4 Receptor and Uses Thereof
; NUMBER OF SEQUENCES: 26
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Merchant & Gould
; STREET: 11150 Santa Monica Blvd., Suite 400
; CITY: Los Angeles
; STATE: California
; COUNTRY: USA
; ZIP: 90025
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.30
```

```
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/889,666
FILING DATE: 08-JUL-1997
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/375390
FILING DATE: 18-JAN-1995
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: Adriano, Sarah B.
REGISTRATION NUMBER: 34,470
REFERENCE/DOCKET NUMBER: 30436-35US01
TELEPHONE: 310-445-1140
TELEFAX: 310-445-9031
INFORMATION FOR SEQ ID NO: 23:
SEQUENCE CHARACTERISTICS:
LENGTH: 225 amino acids
TYPE: amino acid
STRANDEDNESS:
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-889-666-23

Query Match      12.4%; Score 134; DB 2; Length 225;
Best Local Similarity 23.0%; Pred. No. 1.2e-07;
Matches 42; Conservative 32; Mismatches 77; Indels 32; Gaps 8;

QY 11 FCLRIKVLTEINGSANTEMFIHNGVQILCKYPD--IVQQFKMQLKGGQILCDLTKT 68
   |  :  :  :  :  :  :  :  :  :  :  :  :  :  :  :  :  :  :  :  :
DB 12 FFXSVQVTENKILVKOSPLLYVDSNEVXSLSCRYSYNLLAKEFRASLYKG--VNSDVXEV 69
   |  :  :  :  :  :  :  :  :  :  :  :  :  :  :  :  :  :  :  :  :
QY 69 -KSGSNTVSIKSLKF-----CHSQLSNNSVSFFLYNLDSHANYFFCNLSIFDPPPF--K 120
   |  :  :  :  :  :  :  :  :  :  :  :  :  :  :  :  :  :  :  :  :
DB 70 CVGNNGNFTYQOPQFRSNAEFNCGDGFNETVTFRMLNHLVNHDTIYFCKIEFMYPPIYLDN 129
   |  :  :  :  :  :  :  :  :  :  :  :  :  :  :  :  :  :  :  :  :
QY 121 VTLTGGLHIYESQLC-----CQLKFWLPICGAFFVVCILGC-----ILICWLT 165
   |  :  :  :  :  :  :  :  :  :  :  :  :  :  :  :  :  :  :  :  :
DB 130 ERSNGTIIHIKEKHLCHTXXXQSSPKLFW-----ALYVAVGVLFQYGLLVTVLVCVIWTN 184
   |  :  :  :  :  :  :  :  :  :  :  :  :  :  :  :  :  :  :  :  :
QY 166 KKK 168
   |  :  :
DB 185 SRR 187
```

Search completed: July 27, 2003, 11:20:08
Job time : 30 secs